

DERWENT-ACC-NO: 1995-129745  
DERWENT-WEEK: 199517  
COPYRIGHT 1999 DERWENT INFORMATION LTD

TITLE: Decorative coating on glass for use in e.g. architecture - has first layer of titanium@ or titanium nitride and second layer of titanium oxide, both having specified thickness range, etc.

INVENTOR: KONDRAZHOV, V N; MESHKOV, B B ; VANKINA, N M

PATENT-ASSIGNEE: VANKINA N M[VANKI]

PRIORITY-DATA: 1992SU-5032093 (March 13, 1992)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
SU 1834910 A3	August 15, 1993	N/A	002	C23C 004/04

APPLICATION-DATA:

PUB-NO	APPL-DESCRIPTOR	APPL-NO	APPL-DATE
SU 1834910A3	N/A	1992SU-5032093	March 13, 1992

INT-CL\_(IPC): C03C017/34; C23C004/04

ABSTRACTED-PUB-NO: SU 1834910A

BASIC-ABSTRACT: The decorative coating consists of two layers, the first of which is made of Ti-contg. material while the second is made of TiO<sub>2</sub>. To improve results, Ti or titanium nitride is used as Ti-contg. material of first layer, and the thickness of first layer is 3-150 nm while that of the second layer can be varied from 10 to 120 nm. The colouration of the decorative coating can controlled by varying the compsn. of first layer and the thickness of the second layer, e.g. a blue colour is obtd. from a first layer of Ti and a second layer of thickness 50-70 nm, a red colour is obtd. from a first layer of Ti with the thickness of the second layer being 100-120 nm, a green colour is produced when the first layer is titanium nitride and the second layer has a thickness of 50-60 nm, and a yellow colour is obtd. with a first layer of titanium nitride with the thickness of the second layer equal to 70-90 nm, and, finally, the produced coating has 5-60% light transparency invisible spectrum range when the thickness of first layer is 3-30 nm.

USE - Used in architecture, building industry, prodn. of decorative details of furniture, etc..

ADVANTAGE - The colour and light transparency of the decorative coating can be easily controlled by changing materials and thicknesses of the layers.

CHOSEN-DRAWING: Dwg.0/0

TITLE-TERMS:

DECORATE COATING GLASS ARCHITECTURE FIRST LAYER TITANIUM@ TITANIUM NITRIDE SECOND LAYER TITANIUM OXIDE SPECIFIED THICK RANGE

DERWENT-CLASS: L01 M13

CPI-CODES: L01-G04C; L01-G09; L01-L01; M13-F03;

UNLINKED-DERWENT-REGISTRY-NUMBERS: 1966U

SECONDARY-ACC-NO:

CPI Secondary Accession Numbers: C1995-060139

L Number	Hits	Search Text	DB	Time stamp
1	37	((zr or zirconium or ti or titanium) near5 strike) same ((zr or zirconium or ti or titanium) near3 (nitride or carbide or carbonitride or oxide))	USPAT; EPO; JPO; DERWENT	2002/02/21 15:50
2	1321	((zr or zirconium or ti or titanium) near3 (first or intermediate) near2 layer) same ((zr or zirconium or ti or titanium) near2 (nitride or carbide or carbonitride or oxide))	USPAT; EPO; JPO; DERWENT	2002/02/21 15:54
3	1085	((zr or zirconium or ti or titanium) near3 (first or intermediate) near2 layer) same ((zr or zirconium or ti or titanium) near2 (nitride or carbide or carbonitride or oxide) near2 layer)	USPAT; EPO; JPO; DERWENT	2002/02/21 15:56
4	349	((zr or zirconium or ti or titanium) near3 (first or intermediate) near2 layer) same ((zr or zirconium or ti or titanium) near2 (nitride or carbide or carbonitride or oxide) near2 layer near2 (top or second or final))	USPAT; EPO; JPO; DERWENT	2002/02/21 15:59

L Number	Hits	Search Text	DB	Time stamp
1	37	((zr or zirconium or ti or titanium) near5 strike) same ((zr or zirconium or ti or titanium) near3 (nitride or carbide or carbonitride or oxide))	USPAT; EPO; JPO; DERWENT	2002/02/21 15:50
2	1321	((zr or zirconium or ti or titanium) near3 (first or intermediate) near2 layer) same ((zr or zirconium or ti or titanium) near2 (nitride or carbide or carbonitride or oxide))	USPAT; EPO; JPO; DERWENT	2002/02/21 15:54
3	1085	((zr or zirconium or ti or titanium) near3 (first or intermediate) near2 layer) same ((zr or zirconium or ti or titanium) near2 (nitride or carbide or carbonitride or oxide) near2 layer)	USPAT; EPO; JPO; DERWENT	2002/02/21 15:56
4	349	((zr or zirconium or ti or titanium) near3 (first or intermediate) near2 layer) same ((zr or zirconium or ti or titanium) near2 (nitride or carbide or carbonitride or oxide) near2 layer near2 (top or second or final))	USPAT; EPO; JPO; DERWENT	2002/02/21 15:59